NABORS

One Petroleum Center
3300 N. "A" Street, Bldg. 2
Suite 200
Midland, Texas 79705

Phone: 432.683.5000
Fax: 432.683.3697
www.nabors.com

02 June 2014

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Attn: Director of Underground Injection Control

Subject:
Nabors - State AB disposal well (Permit SWD-223-0)
API 30-025-23786
Lea County, New Mexico
Request for packer depth exception

Dear Sir:

We were not able to get a MIT to pass at the subject disposal well until we set the packer at 4517' on 23 May 2014. This is above our permitted packer depth so we are submitting this request for a packer depth exception. In support of this request the well logs referenced below have been e-mailed to Mr. Phillip Goetze. Hard copies of the well logs will be immediately sent to the Santa Fe OCD office. Information regarding this request is summarized as follows:

- A sample log was obtained for a Texaco well located 0.5-mi south of the subject well. The sample log from 3700' to 7448' shows predominantly dolomite with a small amount of limestone and a few thin sandstone intervals. Conditions are expected to be similar in the subject well.
- A cement bond log for the subject well shows good, bonded cement between the formation and the 5.5" casing from 3760'-5000' (5000' was bottom logged interval).
- The sonic log for the subject well shows the top of the San Andres at 4125'.
- The permitted injection interval is 4897'-4919'.

If you need any additional information, please call and I will promptly send it. Thank you.

Sincerely,

Kyle B. Combest
Texas Professional Geoscientist #574

LEA

#1 3-19S-37E

30-025-23786 X

V12/14

V1/4/87

C-1

(12)

DresserAtlas

GAMMA RAY/NEUTRON
BHC Acoustilog

FILE NO.

COMPANY AZTEC OIL & GAS COMPANY

WELL STATE "AB" NO. 1

FIELD WILDCAT

COUNTY LEA STATE NEW MEXICO

LOCATION: 660' FNL & 1980' FWL

SEC 3 TWP 19-S RGE 37-E

Other Services: LL

Permanent Datum G.L. Elev. 3678'
Log Measured from K.B. 11.5 Ft. Above Permanent Datum
Drilling Measured from K.B.

Elevations: KB 3689.5' DF 3688.5' GL 3678'

Date	6-21-71		
Run No.	ONE		
Type Log	BHC/AL/GR/N/C		
Depth-Driller	8121		
Depth-Logger	8123		
Bottom Logged Interval	8120		
Top Logged Interval	SURF		
Type Fluid in Hole	BRINE-STARCH-OIL		
Salinity Ppm Cl.	225,000		
Density Lb./Gal.	10.0		
Level	FULL		
Max. Rec. Temp. Deg. F	130		
Equip. Rig Time	6 HRS.		
Recorded By	HOWE		
Witnessed By	MR. DONALDSON-MR. SIMULA		

Run No.	Bit	Bore Hole Record From	To	Casing Record Size	Wgt.	From	To
1				8 5/8		SURF	1682
1	7 7/8	1682	8123				

Reproduced By
Electrical Log Services
Midland, Texas 79701

REFERENCE 5275P ELSI

2) COMPLETION RECORD

SPUD DATE

COMP DATE 7-17-

DST RECORD

API NO. 30-025-23786

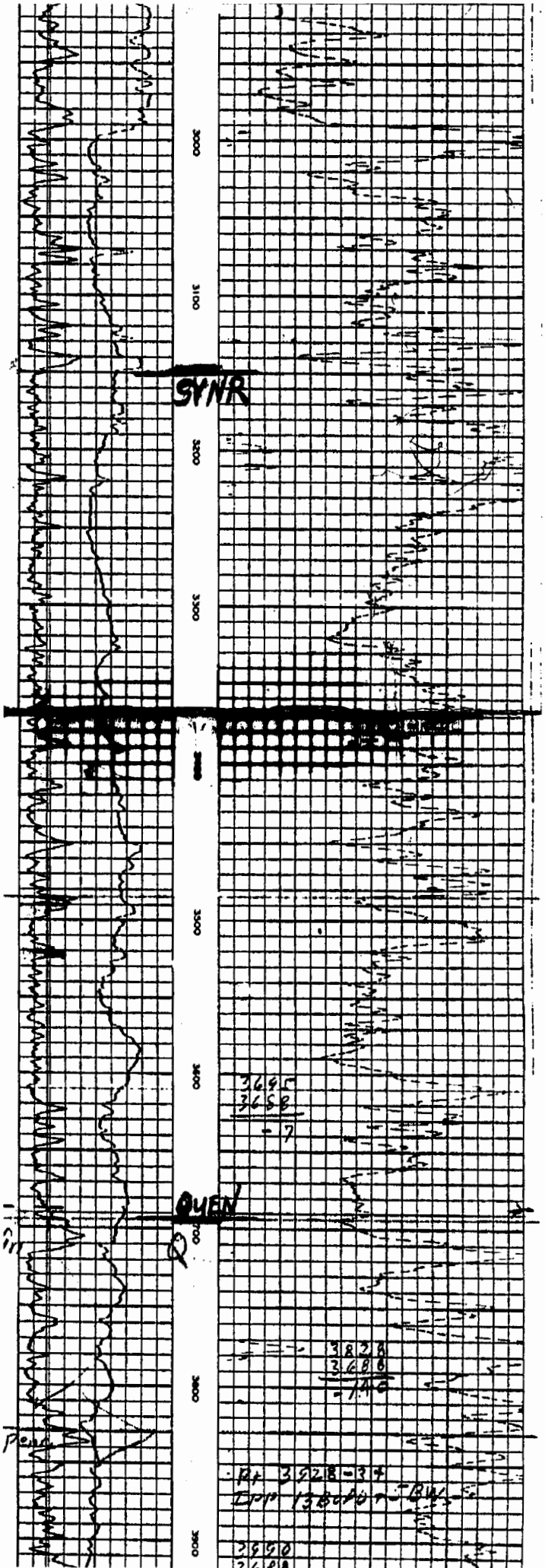
CASING RECORD

PERFORATING RECORD 3926-34, 3944-62

ACID, FRAC SHOT

204455

THE SUBSURFACE LIBRARY @
P. O. BOX 912
MIDLAND, TEXAS 79701



IP P13 B. -0 75BW.

GOR GR

TP CP

REMARKS: T.D. 8170 PBD 4060,

[illegible] Perforated [illegible]

58N, Tubb 6245, Drink. 7000 Abo

7000

REMARKS 621 CALIPER RAN WITH ONE ARM REMOVED.
NEUTRON RAN WITH 5 1/4" SLEEVE.

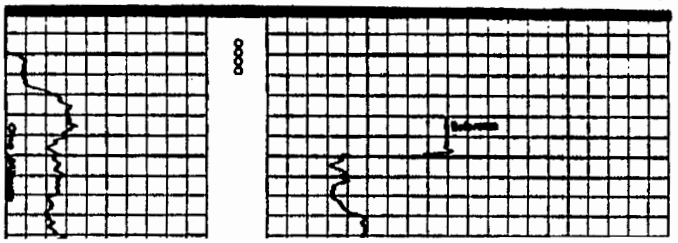
Gamma Ray		Equipment Data		Neutron
Run No.	ONE	Run No.		ONE
Tool Model No.	420	Log Type		H/EN
Diam.	3 3/8	Tool Model No.		420
Detect. Model No.	RGOA	Diam.		3 3/8
Type	SCINT	Detect. Model No.		UNDH
Length	4"	Type		P-COUNTER
Dist. to N Source	80"	Length		4"
General		Source Model No.		S16E5
Haist Truck No.	HL-6040	Serial No.		3585
Test. Truck No.	HL-6040	Spacing		12"
Tool Serial No.	1914-6 420-10	Type		PU-BE
		Strength		5 CURIES

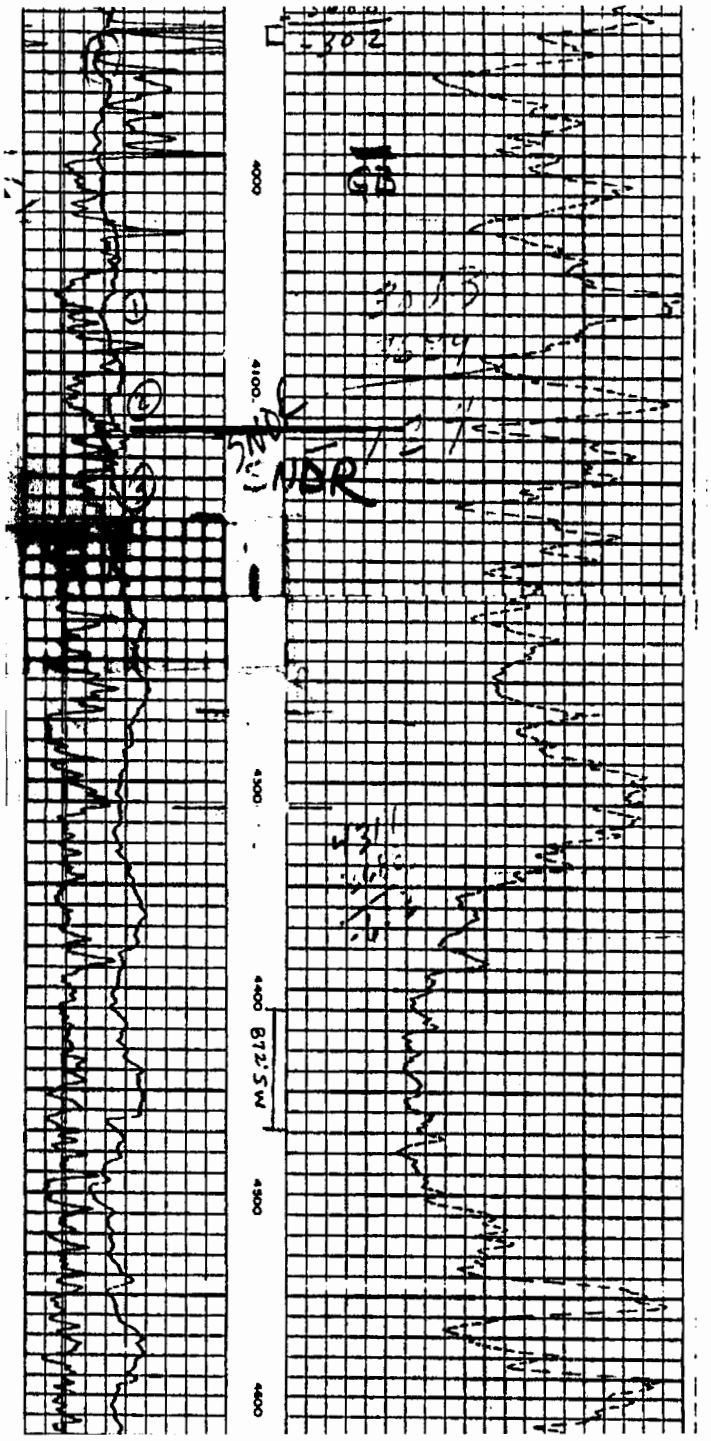
625-HT-2-195 626-16 Logging Date

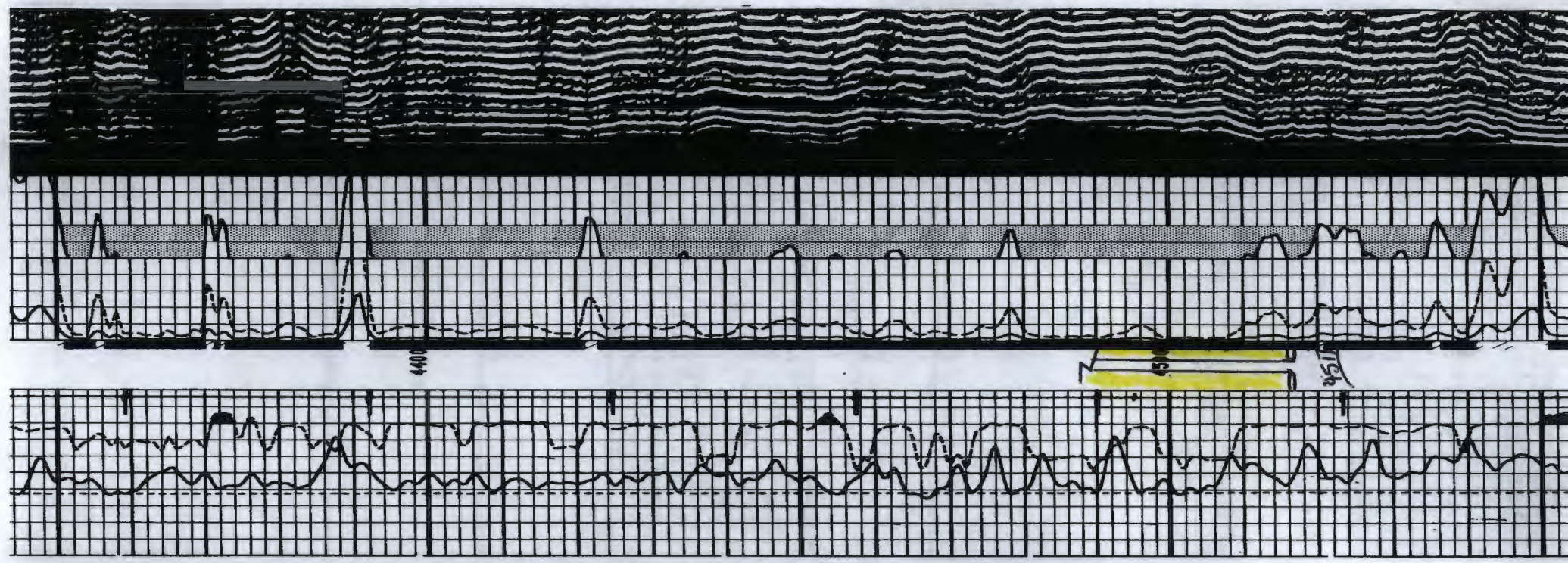
General				Gamma Ray				Neutron			
Run No.	Depths From	Depths To	Speed Ft./Min	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units Per Log Div.	T.C. Sec.	Sens. Settings	Zero Div. L or R	API N. Units Per Log Div.
1	8123	4988	REC	1	614	0	10	2	224/200	S-L	150
1	4988	SURF	REC	1	614	0	10	2	340/200	S-L	100

REPRODUCTION FOR RESALE PROHIBITED

GAMMA RAY	DEPTH	ACOUSTILOG T_1 5 R_1 2 R_2 T_2 EPI - THERMAL NEUTRON
6" CALIPER 16"		ACOUSTIC TRAVEL TIME MICROSECONDS PER FOOT 100 85 70 55 40
GAMMA RAY API GAMMA UNITS 10 API/CD 0 API 100 API	2"=100 LR SURF	NEUTRON API NEUTRON UNITS 100 API/CD 500 API 2500 API







CEMENT BOND LOG

CSU

COMPANY:	A.A. OILFIELD SERVICE, INC.
WELL:	AB STATE #1
FIELD:	EUMONT
COUNTY:	LEA
STATE:	NEW MEXICO
LOCATION:	660 FNL & 1980 FWL
SEC: 3	TWP: 19-S RGE: 37-E
PERMANENT DATUM:	G.L.
ELEV. OF PERM. DATUM:	3678.0 F
LOG MEASURED FROM:	K.B.
11.5 F	ABOVE PERM. DATUM
DRLG. MEASURED FROM:	K.B.
DATE:	21 SEP 87
RUN NO:	
DEPTH-DRILLER:	
DEPTH-LOGGER:	5000.0 F
BTM. LOG INTERVAL:	4988.0 F
TOP LOG INTERVAL:	
CASING-DRILLER:	1682.0 F
CASING-LOGGER:	
CASING:	5 1/2 @ 5/8
WEIGHT:	15.5000 LB/F
BIT SIZE:	
DEPTH:	

ELEVATIONS-
KB: 3689.0 F
DF:
GL: 3678.0 F

OTHER SERVICES-

PROGRAM
TAPE NO:
29.4A
SERVICE
ORDER NO:
284193

TYPE FLUID IN HOLE:
DENSITY:
VISCOSITY:
PH:
FLUID LOSS:
SOURCE OF SAMPLE:
RM: AT
RMF: AT
RMC: AT
SOURCE RMF/RMC:
RM AT BHT:

RMF AT BHT: AT
RMC AT BHT: AT

TIME CIRC. STOPPED:
TIME LOGGER ON BTM.: SEE LOG

MAX. REC. TEMP:

LOGGING UNIT NO: 8169
LOGGING UNIT LOC: HOBBS P.S.
RECORDED BY: LAGRAIZE
WITNESSED BY: MR. PETERS

REMARKS:

TIED IN AT BOTTOM WITH SWS CASING COLLAR LOG OF 7/80
TIED INTO GR ON GR/NEUTRON CRC 1/15/79

EQUIPMENT NUMBERS-

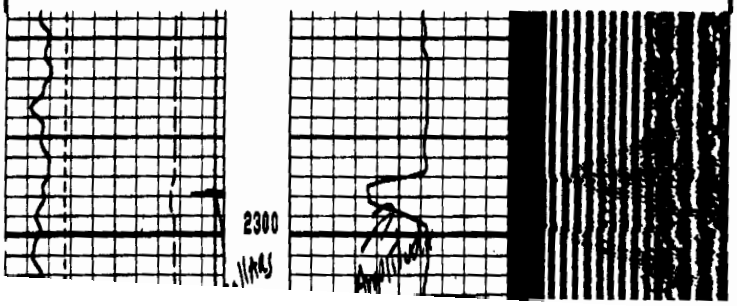
SLTL SGTE CALR

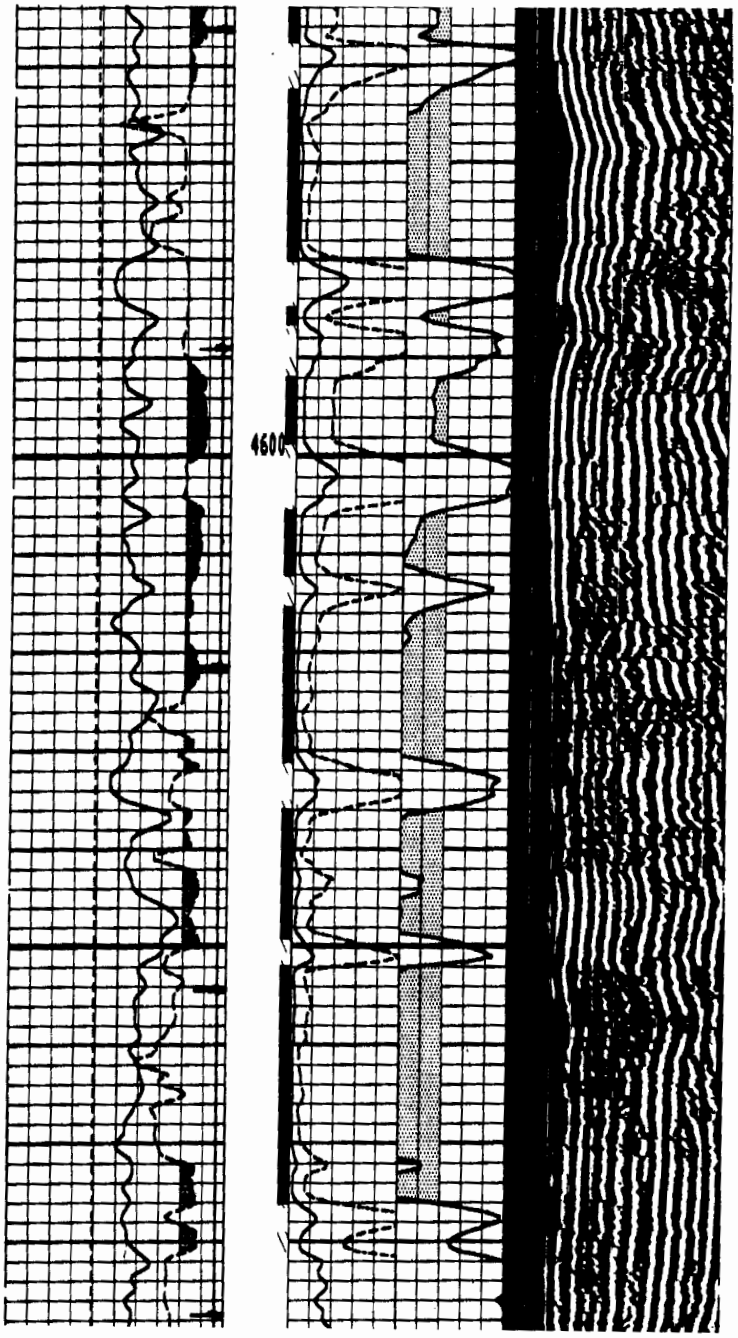
ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

CP 28.4A FILE 4 21-SEP-87 13:23

TENS(LB) 0.0 5000.0		
CCL -19.00 1.0000		
TT2 (US) 400.00 200.00	CBL (MV) 0.0 20.000	
GR (GAPI) 100.00 200.00	CBL (MV) 0.0 100.00	
GR (GAPI) 0.0 100.00	BI 1.5000 .50000	VDL (US) 200.00 1200.0

CP 28.4A FILE 3 21-SEP-87 13:20 OPSJ Surface





Goetze, Phillip, EMNRD

From: Combest, Kyle <Kyle.Combest@nabors.com>
Sent: Monday, June 02, 2014 2:28 PM
To: Goetze, Phillip, EMNRD
Subject: Nabors request for packer exception - Cover Letter
Attachments: 0301_001.pdf

Phillip, attached is the cover letter for the requested packer exception.
The attached letter along with the 3 logs I emailed to you includes all the supporting information.

I will ship 2 hardcopy sets of all this information to you: 1 for the Santa Fe Office and 1 for the District Office.
You will have those Wednesday morning.

We greatly appreciate your attention in this matter.

Sincerely, Kyle Combest

From: fax@nabbors.com [mailto:fax@nabbors.com]
Sent: Monday, June 02, 2014 3:17 PM
To: Combest, Kyle
Subject: Attached Image

****
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03 June 2014

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
Attn: Director of Underground Injection Control

Subject:
Nabors - State AB disposal well (Permit SWD-223-0)
API 30-025-23786
Lea County, New Mexico
Request for packer depth exception

Phillip,

As described in the following cover letter, hard copies of the well logs are attached. Please call if you need additional information.

Sincerely,

Kyle B. Combest

Kyle B. Combest
Texas Professional Geoscientist #574

RECEIVED OCD
2014 JUN -4 A 9: 21

OPERATOR	CONTRACTOR
WELL NAME AND NUMBER	LEASE
FIELD	COUNTY
PERMIAN BASIN	EDDY, NM
SECTION	BLOCK
SURVEY	
TOTAL DEPTH	DATE STARTED
12/17/2010	12/17/2010
COMPLETION DATE	
12/17/2010	
TYPE COMPLETION (Oil, Gas, Dry, Inj, Disp)	
DRY	
CASING RECORD (Surface, Intermediate, Production, Liner, Tubing)	
NONE	
PERFORATIONS (Kind, Size, Number, Depth)	
NONE	
PRODUCTION (Flowing, Pumping, Gas Lift, Shut-in)	
NONE	
INITIAL PRODUCTION	
NONE	

THIS LOG IS ISSUED TO

THE OIL CONSERVATION DIVISION

PERMIAN BASIN SAMPLE LABORATORY

MIDLAND, TEXAS

COMPUTER REPORT # 3287 (# 3287-A PRODUCED)

Depth	Description
0	Ms 1 - Ms 4 (0-20%) Ss
	Ss 1 - Ss 4 (40-70%) Ls
	Ss 5 - Ss 10 F T.
1	
2	
3	
4	Ms 7 (5-10%) Ls
	Ss 7
5	
6	Ms 8 - Ms 9 (5-10%) Ls
	Ss 9 (5-10%) Ss
7	
8	
9	
10	
11	Ss 11 F Ss
12	
13	Ss 14 (5-10%) Ss; Ms 14 (5-10%) Ls
14	
15	
16	
17	Ms 17 (5-10%) Ls
	Ss 17
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	

3 175 37E

3-175-37E

LEA

3-175-37E

1/21/14

1/14/17

Crescent Bits

CONTRACTOR NO. 1

RIG: Assembly

Contractor	Contract Drilling & Well Servicing
Rig No.	Contract Rig 1
Operator	Chesapeake Operating, Inc.
Lease	Lea
Well No.	3-175-37E
Field	Wildcat
County	Lea
State	New Mexico
Date Spud	1/21/14
Date Completed	1/14/17
Total Depth	20,000'
Bit Size	8 3/4"
Type Bit	Hughes
Bit No.	1
Type Mud	Water
Mud Wt.	8.4
Vis.	28
Pump Pressure	2000
Pump Size	6 1/2"
Liner Size	6"
Strokes	120
Pump Output	0.0700
Jet Size	20
Total Jets	3
Total Flow Area	0.9817
Depth Out	20,000'
Total Footage	19,825'
Total Hours	1,440
Average ROP	13.8
Bit Condition	1-1-CT-A-E-I-NO-TD

Hughes Christensen Houston, Texas

REFERENCE

© CHRISTENSEN 1983

REMARKS: 1-1/2" GAUGE RING

DRILLING TIME: 1-1/2" GAUGE RING

DRILLING TIME: 1-1/2" GAUGE RING

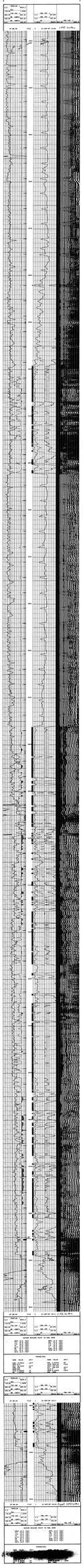
DRILLING TIME

COMPANY	[redacted]
WELL	[redacted]
FIELD	[redacted]
COUNTY	[redacted]
STATE	[redacted]
LOCATION	[redacted]
OTHER SERVICES	[redacted]
SECT	[redacted]
TWP	[redacted]
RGE	[redacted]
PERMANENT DATUM	[redacted]
ELEV.	[redacted]
LOG MEASURED FROM	[redacted]
DRILLING MEASURED FROM	[redacted]
DATE	[redacted]
RUN NO.	[redacted]
DEPTH-DRILLER	[redacted]
DEPTH-LOGGER	[redacted]
BTM. LOG INTERVAL	[redacted]
TOP LOG INTERVAL	[redacted]
CASING-DRILLER	[redacted]
CASING-LOGGER	[redacted]
BIT SIZE	[redacted]
TYPE FLUID IN HOLE	[redacted]
DENS. / VISC.	[redacted]
PH / FLUID LOSS	[redacted]
SOURCE OF SAMPLE	[redacted]
RM @ MEAS. TEMP.	[redacted]
RMF @ MEAS. TEMP.	[redacted]
RMC @ MEAS. TEMP.	[redacted]
SOURCE RMF / RMC	[redacted]
RM @ BHT	[redacted]
TIME CIRC. ORDERED	[redacted]
TIME LOGGER ON BOTTOM	[redacted]
MAX. REC. TEMP.	[redacted]
EQUIP. NO.	[redacted]
LOCATION	[redacted]
RECORDED BY	[redacted]
WITNESSED BY	[redacted]

[redacted]

RUN NO.	[redacted]
BIT SIZE	[redacted]
TYPE	[redacted]
FROM	[redacted]
TO	[redacted]
CASING	[redacted]
TYPE FLUID	[redacted]
DENSITY	[redacted]
VISCOSITY	[redacted]
PH	[redacted]
FLUID LOSS	[redacted]
SOURCE	[redacted]
RM @ MEAS. TEMP.	[redacted]
RMF @ MEAS. TEMP.	[redacted]
RMC @ MEAS. TEMP.	[redacted]
SOURCE RMF / RMC	[redacted]
RM @ BHT	[redacted]
TIME CIRC. ORDERED	[redacted]
TIME LOGGER ON BOTTOM	[redacted]
MAX. REC. TEMP.	[redacted]
EQUIP. NO.	[redacted]
LOCATION	[redacted]
RECORDED BY	[redacted]
WITNESSED BY	[redacted]

[redacted]



[redacted]